

ENCLOSURE 4



U.S. Department of Energy
Office of Civilian Radioactive Waste Management



Management Improvement Initiatives

Presented to:

DOE/NRC Quarterly Quality Assurance Meeting

Presented by:

Gene E. Runkle

Program Improvement Manager

Office of Civilian Radioactive Waste Management



Outline

- **History and Background**
- **Lessons Learned**
- **Five Key Areas for Improvement**
- **How Are We Going to Manage?**
- **Effectiveness Indicators**
- **Conclusions**



History and Background

- **1998: Senior managers began transition from work technically sufficient for site suitability to traceability needed for licensing**
- **2001: Quality Assurance (QA) organization identified recurring conditions adverse to quality (BSC 01-C-001 and -002)**
 - **Root cause analysis identified weaknesses in management systems, quality processes, and roles and responsibilities**
 - **Management recognized need for sustained initiative to:**
 - ♦ **Clarify roles, responsibilities, authority, and accountability**
 - ♦ **Improve effectiveness of QA program implementation**
 - ♦ **Drive culture to consistency with NRC-regulated environment**



History and Background

(Continued)

- **2002: OCRWM Management Improvement Initiatives (OMII) submitted to NRC**
 - Document did not meet previous commitments or expectations
 - OCRWM committed to submit a revised document that reflects:
 - ♦ Actions to address deficiencies and recommendations
 - ♦ Remedial and corrective actions for corrective action reports
 - ♦ Other relevant actions to improve OCRWM management practices
- **Revised document completed in July 2002**



Source Documents

- **15 documents were reviewed, including:**
 - **Corrective Action Reports (CARs) [2]**
 - **Root Cause Analyses [2]**
 - **Concerns Program Trend Report [1]**
 - **NRC-DOE Correspondence [3]**
 - **DOE/BSC Internal Evaluation and Correspondence [4]**
 - **Quality Assurance Management Assessments [2]**
 - **External Evaluation Report (Morgan, Lewis & Bockius) [1]**
- **Management Improvement Initiatives Appendix A references source documents and correlates with action summaries**

Lessons Learned

- **Lessons Learned Evaluation Team reviewed OMI submittal process**
 - Reference: OCRWM-LL-2002-066 (Completed July 2002)
- **Team found Yucca Mountain Project management system needs improvements in:**
 - Program standards, policies, administrative controls and direction to employees
 - Oversight, employee relations, and employee feedback
 - Accountability
- **Findings common to both DOE (line and QA) and BSC; impact all levels of organizations**

Lessons Learned

(Continued)

- **Recommended corrective actions are:**
 - Conduct management meetings to communicate lessons learned and future expectations
 - Issue letters to clearly define performance expectations, responsibilities, and authorities
 - Redirect or establish Deputy Manager for conflict identification and resolution, issue escalation, and independent assessment of CAR/Deficiency Reports (DRs)
 - Establish senior review board for independent review of significant issues and plans
- **Actions address Program's weaknesses and envelope lower-level deficiencies and recommended actions from source documents**



Five Key Areas for Improvement

- **Project Roles, Responsibilities, Authority, and Accountability (R2A2)**
- **Quality Assurance Programs and Processes**
- **Project Procedures**
- **Corrective Action Program**
- **Safety-Conscious Work Environment**



Roles, Responsibilities, Authority, and Accountability (R2A2)

- **Objective: Define ownership and accountability**
- **Current: Support site suitability; R2A2 confusion**
- **Desired: Align for licensing; understand and accept**
- **Approach: Realignment, clarification, and definition**
 - Issue DOE policy statement identifying expectations
 - Clarify R2A2 to align authority and responsibility
 - Orient DOE staff to hold BSC accountable
 - Orient BSC staff to organization and R2A2
 - Issue DOE Program Manual on implementing requirements
 - Revise DOE annual performance appraisals



Quality Assurance Programs and Processes

- **Objective:** Implement QA requirements and processes
- **Current:** Quality processes need improvement; requirements documentation confusing and difficult
- **Desired:** Define and clarify roles and responsibilities
- **Approach:** Focus on quality at working level
 - Issue DOE policy statement on expectations
 - Clarify R2A2 for Office of Quality Assurance (OQA)
 - Orient DOE and BSC staffs on R2A2
 - Review Quality Assurance Requirements and Description
 - Reflect QA requirements in implementing procedures
 - Revise DOE annual performance appraisals



Project Procedures

- **Objective:** Institute effective and efficient procedures
- **Current:** Overly prescriptive and inefficient
- **Desired:** Effective and efficient DOE and BSC procedures
- **Approach:** Realign R2A2; review and revise procedures
 - Clarify OCRWM R2A2
 - Review existing procedures
 - Issue new or revised procedures
 - Train personnel prior to implementation



Corrective Action Program

- **Objective: Single corrective action program**
- **Current: Multiple management systems**
- **Desired: Single, Project-wide system**
- **Approach: Simplify and communicate program**
 - **Assign OQA Director responsibility for administration and hold accountable**
 - **Establish DOE task team for requirements and specifications**
 - **Develop and implement BSC system identify and minimize adverse repetitive conditions**
 - **Implement single OCRWM corrective action program**
 - **Define and implement self-assessment and lessons-learned programs based on corrective action program**



Safety-Conscious Work Environment

- **Objective: Foster and sustain Safety Conscious Work Environment (SCWE)**
- **Current: Lack of SCWE understanding, common values, and timely actions**
- **Desired: SCWE embraced; work environment encourages input without fear of harassment, intimidation, retaliation, or discrimination (HIRD); prompt and meaningful response to concerns**



Safety-Conscious Work Environment

(Continued)

- **Approach: SCWE Policy with clear expectations, training, reinforcement, and communication**
 - **Modify BSC and other DOE contracts for SCWE**
 - **Eliminate backlog of open OCRWM employee concerns**
 - **Establish DOE and BSC policies and procedures**
 - **Develop/Revise SCWE training modules**
 - **Establish internal BSC mechanisms for employee concerns**
 - **Conduct employee and supervisor/manager training**
 - **Have external SCWE expert group evaluate YMP**



Appendix B

- **Contains action summaries for CARs BSC-01-C-001 and -002 for modeling and software**
 - BSC is responsible for these corrective actions
 - Corrective actions listed as complete have been verified
 - Effectiveness will be verified during routine Office of Quality Assurance audits and surveillances



How Are We Going to Manage?

- Establish vision, policies, and procedures yielding continuous improvement
- Establish rigor, discipline, safety-consciousness, formality, and accountability
- Create team of competent change agents dedicated to continuous improvement
- Assure success by measuring performance and providing resources to implement improvements



How Are We Going to Manage?

(Continued)

- **Effectiveness Review and Closure Process**
 - Responsible manager reviews and approves each action
 - OCRWM OQA reviews and agrees action is complete
 - Outside experts review overall effectiveness
- **Effectiveness Indicators**
 - Establish goals to manage and hold accountable
 - Goals establish desired end state
 - Interim goals measure progress toward end-state goals



YUCCA MOUNTAIN PROJECT

Conclusions

- Senior management has reviewed and taken stock of changes needed to improve management systems and prevent further recurrence of adverse conditions
- Revised Management Improvement Initiatives sets forth plans for effective implementation of changes
- Key elements of revised approach include:
 - Recognition that managers' behaviors and accountability need to change
 - Identification of 5 key areas where improvements are needed
 - Personal commitment of Dr. Chu, OCRWM Director, to make resources available, review progress, and report to NRC

